

03050206-030

(Cow Castle Creek)

General Description

Watershed 03050206-030 is located in Orangeburg County and consists primarily of *Cow Castle Creek* and its tributaries. The watershed occupies 43,495 acres of the Lower Coastal Plain region of South Carolina. The predominant soil types consist of an association of the Goldsboro-Lynchburg-Rains series. The erodibility of the soil (K) averages 0.17 and the slope of the terrain averages 1%, with a range of 0-2%. Land use/land cover in the watershed includes: 44.2% agricultural land, 35.6% forested land, 14.3% forested wetland (swamp), 3.7% barren land, 1.7% urban land, 0.3% nonforested wetland (marsh), and 0.2% water.

Cow Castle Creek originates near the City of Orangeburg and accepts drainage from Crum Branch, Buck Branch, and Patrick Branch before flowing into Four Hole Swamp. There are a total of 77.2 stream miles and 302.5 acres of lake waters in this watershed, all classified FW.

Surface Water Quality

<u>Station #</u>	<u>Type</u>	<u>Class</u>	<u>Description</u>
E-050	W/INT	FW	COW CASTLE CREEK AT S-38-170

Cow Castle Creek (E-050) – Aquatic life uses are fully supported. This is a blackwater system, characterized by naturally low pH and dissolved oxygen concentrations. Natural conditions in this stream may have contributed to the observed low dissolved oxygen values. Recreational uses are partially supported due to fecal coliform bacteria excursions.

Groundwater Quality

<u>Well #</u>	<u>Class</u>	<u>Aquifer</u>	<u>Location</u>
AMB-004	GB	BLACK CREEK	BOWMAN

NPDES Program

Active NPDES Facilities

RECEIVING STREAM

FACILITY NAME

PERMITTED FLOW @ PIPE (MGD)

COW CASTLE CREEK

TOWN OF BOWMAN

PIPE #: 001 FLOW: 0.236

NPDES#

TYPE

COMMENT

SC0040037

MINOR DOMESTIC

Growth Potential

Interstate 26 crosses this watershed and should promote some growth around the two interchanges near the Town of Bowman. U.S. 178 parallels I-26 and runs through Bowman.